SKURAT, N.Ye.,

Making a wider use of showers. Tekst.prom. 20 no.4:91 Ap

160. (MIRA 13:8)

(Textile workers--Diseases and hygiene)

SKURAT, N.Ye.; NOVIKOV, Yu.V.

Medical and hygienic inspection of windowless factories
(from "Deutsche Gesundheitswesen," no. 22, 1956). Gig. i
san. 25 no. 6:106-107 Je '60. (MIRA 14:2)

(FACTORY SANITATION)

TRUGIN N.V.

BABOKIN, I.A., redaktor; BALBACHAN, Ya.I, redaktor; BARABANOV, F.A., redaktor; BUCHNEV, V.K., redaktor; VLADIMIRSKIY, V.V., redaktor; GRIGOR'YEV, S. Ye., redaktor; DOKUKIN, A.V., redaktor; ZHABO, V.V. redaktor; ZADERIDKO, A.N., redaktor; ZAITSEV, A.P., redaktor; IL'ICHEV, A.S., redaktor; KAGAN, V.Ya., redaktor; KRASNIKOVSKIY, G.V., redaktor; KRASOZOV, I.P., redaktor; KRIVONOGOV, K.K., redaktor; LALAYANTS, A.M., redaktor; MOGILEVSKIY, N.M., redaktor; ONIKA, D.G., redaktor; OSTROVSKIY, S.B., redaktor; OSTROVSKIY, S.M., redaktor; PEYSAKHOVICH, G.I., redaktor; POCHENKOV, K.I., redaktor; SIRYACHENKO, F.N.; redaktor. SKOCHINSKIY, A.A., redaktor; STUGAREV, A.S., redaktor; SKORKIN, K.I.; SKURAT, V.K., redaktor; SOBOLEV, G.G., redaktor; TERPITOREV, A.M., redaktor; KHUDOCOVTSEV, N.M., redaktor; TSYPKIN, V.S., redaktor; SHEVYAKOV, L.D., redaktor; SHELKOV, A.A., redaktor; ANDREYEV, G.G., tekhnicheskiy redaktor.

[Safety rules in coal and shale mines] Pravila bezopasnosti v ugol'nykh i slantsevykh shakhtakh. Moskva, Ugletekhizdat, 1951. 207 p. (MLRA 9:1)

1. Russia (1923- U.S.S.R) Ministerstva ugol'noy promyshlennosti. (Coal mines and mining-Safety measures)

SKUKAT, V.K.

KUZ'MICH, A.S., redaktor; BARABANOVA, F.A., redaktor; BOBROV, I.V., redaktor; VLADIMIRSKIY, V.V., redaktor; GRAFOV, L.Ye., redaktor; DOKUKIN, A.V., redaktor; YERASHKO, I.S., redaktor; ZABLODSKIY, G.P., redaktor; ZADE-MIDKO, A.N., redaktor; ZAYTSEV, A.P., redaktor; ZASADYCH, B.I., redaktor; KAGAN, F.Ya., redaktor; KRASNIKOVSKIY, G.V., redaktor; KRIVONOGOV, K.K., redaktor; LALAYANTS, A.M., redaktor; MELAMED, Z.M., redaktor; MINDELI, E.O., redaktor; MOGILEVSKIY, N.M., redaktor; OSTROVSKIY, S.B., redaktor; POPOV, T.T., redaktor; SKOCHINSKIY, A.A., redaktor; SUBCHENKO, V.A., redaktor; TERPIGOREV, A.M., redaktor; SHRVYAKOV, L.D., redaktor; SHELKOV, A.A., redaktor; ANDREYEV, G.G., tekhnicheskiy redaktor

[Safety regulations in coal and shale mines] Pravila bezopasnosti v ugol'nykh i slantsevykh shakhtakh. Moskva, Ugletekhizdat, 1953. 226 p. (MIRA 8:4)

1. Russia (1923- U.S.S.R.) Ministerstvo ugol'noy promyshlennosti. (Goal mines and mining-Safety measures)

ZAYTSEV, A.P., red.; BORZOV, K.V., red.; BOGUSLAVSKIY, Yu.K., red.;

BELCUSOV, V.G., red.; VODAKHOV, L.A., red.; IZRAITEL, S.A., red.;

KOL, A.N., red.; LISYUK, S.S., red.; MOISEYEV, S.L., red.;

MEL'NIKOV, N.V., red.; MOROZOV, V.P., red.; MUDROV, P.A., red.;

POLYAKOVA, Z.K., red.; PODERNI, Yu.S., red.; POLESIN, Ya.L., red.;

POKROVSKIY, L.A., red.; SLASTUNOV, V.G., red.; SKURAT, V.K., red.;

STRUNIN, M.A., red.; SOKOLOVSKIY, M.M., red.; FEOKTISTOV, A.T.,

red.; CHESNOKOV, M.M., red.; SHUKHOV, A.N., red.; YAMSHCHIKOV,

S.M., red.; BYKHOVSKAYA, S.N., red.; BERESLAVSKAYA, L.Sh.,

tekhn.red.

[Unified safety regulations in open-cut mining] Edinye pravila bezopasnosti pri razrabotke mestorozhdenii poleznykh iskopaemykh otkrytym sposobom. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po gornomu delu, 1960. 61 p. (MIRA 13:7)

1. Russia (1917- R.S.F.S.R.) Gosudarstvennyi komitet po nadzoru za bezopasnym vedeniyem rabot v promyshlennosti i gornomu nadzoru. (Strip mining--Safety measures)

IZRAITEL', S.A., otv. red.; MOISEYEV, S.L., otv. red.; SKURAT, V.K., otv. red.; SLASTUNOV, V.G., otv. red.; ZAYTSEV, A.P., red.; POLESIN, Ya.L., red.; SKURAT, V.K., red.; SLASTUNOV, V.G., red.; SOBOLEV, G.G., red.; FECKTISTOV, A.T., red.; MIROSHNICHENKO, V.D., red. izd-va; BOLDYREVA, Z.A., tekhn. red.

[Unified safety rules for mining metalliferous, non-metallic, and placer deposits by the underground method] Edinye pravila bezopasnosti pri razrabotke rudnykh, nerudnykh i rossypnykh mestorozhdenii podzemnym sposobom. Moskva, Gosgortekhizdat, 1962. 253 p.

(MIRA 15:12)

1. Russia (1917- R.S.F.S.R.)Gosudarstvennyy komitet po nadzoru za bezopasnym vedeniem rabot v promyshlennosti i gornomu nadzoru.

(Mine safety)

NAME AND PARTY OF THE PROPERTY OF THE PROPERTY

IZHAITEL', S.A., otv. red.; SKURAT, V.K., otv. red.; ZUBAREV, S.N., otv. red.; MOISEYEV, S.L., otv. red.; ASTAF'YEVA, A.V., kand. tekhn. nauk, red.; VAS'KOVSKIY, Ye.L., red.; VISHNEVSKIY, Ye.L., red.; KRIVTSOV, B.S., red.; KOROTKIN, I.N., red.; MITROFANOV, S.I., doktor tekhn. nauk, red.; NORKIN, V.V., kand. tekhn. nauk, red.; NIKITIN, A.A., red.; RUDNEV, A.P., red.; SLASTUNOV, V.G., red.; TKACHEV, F.A., red.; RAUKHVARGER, Ye.L., kand. tekhn. nauk, red.; FEOKTISTOV, A.T.[deceased], red.; ZAYTSEV, A.P., red.

[Safety regulations for the dressing and sintering of ferrous and nonferrous metal ores] Pravila bezopasnosti pri obogashchenii i aglomeratsii rud tsvetnykh i chernykh metallov. Moskva, Nedra, 1964. 106 p. (MIRA 18:4)

1. Russia (1917- R.S.F.S.R.) Gosudarstvennyy komitet po nadzoru za bezopasnym vedeniyem v promyshlennosti i gornomu nadzoru.

POLESIN, Ya.L., otv. red.; SKURAT, V.K., otv. red.; KAPELYUSHNIKOV, G.I., otv. red.; MOISEYEV, S.L., otv. red.; RATNIKOVA, A.P., red.izd-va; BCLDYHEVA, Z.A., tekhn. red.

[Safety measures in coal and shale mines; current regulations in effect applicable to mines in operation, construction, and reorganization] Pravila bezopasnosti v ugol'nykh i slantsevykh shakhtakh; nastoiashchie pravila rasprostraniaiutsia na shakhty, nakhodiashchiesia v ekspluatatsii, stroitel'stve i rekonstruktsii. Moskva, Izd-vo "Nedra," 1964. 325 p.

[Collection of instructions...] Sbornik instruktsii k....
[MIRA 17:4)

1. Russia (1917- R.S.F.S.R.) Gosudarstvennyy komitet po nadzoru za bezopasnym wedeniyem rabot v promyshlennesti i gornownu nadzoru.

SKURAT, V. Ve.
AUP KORS: You color tokis, J.F., Kudryckov, A.A., Elerat, V.Ye., Tentsyrev, G.D.

TITIE: Preparation of Glass Diaphragus for the Inlet System in a Mass Spectrometer (Izgotovleniye steklyamyth diafragu dlya napuslmoy sistemy mass-spektrometra)

FERIODICAL: Pribory i Tekhnika Eksperimenta, 1957, Nr 3, p.108 (USSR)

ABSTRACT: In mass spectroscopic analysis of substances such as free radicals which react easily with metals, it is necessary to prepare glass diaplragms through which the gas flows into the ion source. A method of preparing such diaphragms is given. The end of a Pyrex glass tube having an internal diameter of 10 mm is drawn out to a diameter of 2 mm and the end of the tube is polished. After this, the end is heated until the glass softens and it is then pierced through a plane glass slide prepared in a way described in (Ref.1). The glass slide is 30 mm thick and fuses into the tube. The seal is vacuum tight and withstands atmospheric pressure. The cap is then covered with parcifin in which a

Out: 1/0

1 0.1 34/40

Preparation of Glass Dispurages for the Inlet System in a Mass Spectrometer.

small hold is made with a hot needle (Fig.1). On either side of the bin cover are placed electrodes connected to an induction coil. By closian a key in the primary, a potential difference of 150 volts is applied to it from a bank of condensors having a capacity of 100 microforads. When the place well is pierced by a single spark, a round aperture 10 µ in diameter is produced in the centre. The diameter can be increased to 80 µ if the discharge is rediameter can be increased to 80 µ if the discharge is repeated several times. In order to obtain bigger diameters fluoric acid and be applied to the cause of the aperture. Diameters of 100 to 500 μ can be obtained in this way. The diaphragm say be fused into the inlet system of the mass spectromater as shown in Fig. 2. V.L. Tellroze collaborated. There are I diagrams, no tables and I Russian reference.

ASSOCIATION: Institute of Chemical Physics of the Abademy of Sciences of the GJ.R. (Institut khimicheskoy fiziki AN USSR)
SUBHITTED: February 5, 1957.

AVAILABLE: Tilve , of Compare.

1. Spectrometers 2. Diaphragms-Glass-Application $g_{\rm att}$ d 2/2.

SKURATIVYC.

AUTHORS:

Lavrovskaya, G. K., Skurat, V. Ye., Tal'roze, V.L., 20-1;-27/52 Tantsyrev, G. D.

TITLE:

Mass-Spectroscopic Investigation of the Products of Discharge in Steam (Mass-spektroskopicheskoye issledovaniye produktov razryada v parakh vody).

PERIODICAL:

Doklady AN SSSR, 1957, Vol. 117, Nr 4, pp. 641-644 (USSR)

ABSTRACT:

The here discussed measurements were carried out with a mass spectrometer specially constructed for the determination of free radicals and atoms. The peculiarity of this apparatus is the introduction of the mixture to be analyzed into the ion source in form of a bundle of molecules. The molecule bundle is here coaxial with the ion-bundle. The system of the formation of this molecule bundle and the scheme of the connection of the apparatus of discharge with the mass spectrometer is demonstrated in a diagram. Further particulars are given on the design and calibration of this instrument. The authors then discuss the results of the mass-spectroscopical measurements of the concentration of the atoms and radicals in the discharge--products formed in the steam. Measurements were carried out at pressures of from 0,5 to 4 mm torr. and with a discharge amperage of from 100 to 150 mA. The intensities of the

Card 1/3

CIA-RDP86-00513R001651210012-2"

APPROVED FOR RELEASE: 08/24/2000

Mass-Spectroscopic Investigation of the Products of Discharge 20-4-27/52 in Steam.

PRESENTED:

May 16, 1957, by V. N. Kondrat'yev, Academician.

SUBMITTED:

April 28, 1957

AVAILABLE:

Library of Congress

Card 3/3

Application of Mass-Spectroscopy for Chemical Analysis

SOV/63-4-2-4/39

Ref 17-18. The composition of analyzed mixtures is determined by absolute or relative methods. The absolute graduation coefficients vary in every spectrometer, the relative coefficients are more stable. A measure for the content of a substance is the "complete ionization" which is the sum of all band intensities of the spectrum of the mixture. Recently electronic computers have come to be used for calculating the composition of mixtures / Ref 24 /. Mass-spectroscopy has also been used for the analysis of esterified fatty acids, condensates from industrial fumes from the atmosphere of big cities, ets / Ref 29, 30 /, for the determination of gases in metals / Ref 31-33 /, etc. The distribution of the band intensities usually corresponds to the structure of the molecules. The theoretical calculation of the band intensities is possible only for the simplest case, i.e. the molecule H_2 . A theory of the mass-spectrum must still be developed. The kinetics of chemical reactions is determined by taking samples at the beginning and the end of the process or by the continuous method in which the reacting mixture is directly passed into the ion source of the mass-spectrometer. The last method can be used for the determination of intermediate products, like free radicals. The use of low-energy electrons avoids the dissociative ionization of molecules. It has been proposed to use photoionization, because the monochromatization of light is simpler

Card 2/4

Application of Mass-Spectroscopy for Chemical Analysis

507/63-4-2-4/39

than that of slow electrons $\angle Ref 9 \overline{/}$. Free radicals are passed into the area of ionization in the form of a molecular bunch in order to avoid reactions with metal surfaces, etc. The mass-spectroscopy of free radicals is applied on a broad scale. It is also employed for the determination of ions in the flames of hydrocarbons and hydrogen [Ref 91, 92/. A system for the determination of the composition of free radicals has been developed by the authors / Ref 73, Figure 37. Recently the cross-sections of ion-molecular reactions have been determined / Ref 98, 997. Levina determined the isotopes of Fe, Zn, Mg, Ni, Cr, Pb and Sb by means of mass-spectroscopy Ref 1067. Solid bodies are evaporated in a vacuum spark. In substances with low ionization potentials surface ionization may be used. Admixtures of 10^{-3} to 10^{-5} % may be determined by these methods. This is important for the production of semiconductors, pure metals, etc. Mass-spectroscopy is used in the USSR for the control of the evacuation conditions of electrovacuum apparatus Ref 116_/. Tantsyrev controlled the purity of inert gases by this method. Improvements of the method consist in the application of new cathodes, e.g. a thorium-iridium cathode $\sqrt{2}$ Ref 119 $\sqrt{2}$, and the utilization of an electrometric amplifier, a secondary electronic amplifier measuring currents of less than 10^{-15} a. In the USSR the mass-spectrometers MI 1301, MI 1305, MKh 1303 have a resolving power of 400 - 600, the apparatus MV 2301, a power of 5,000.

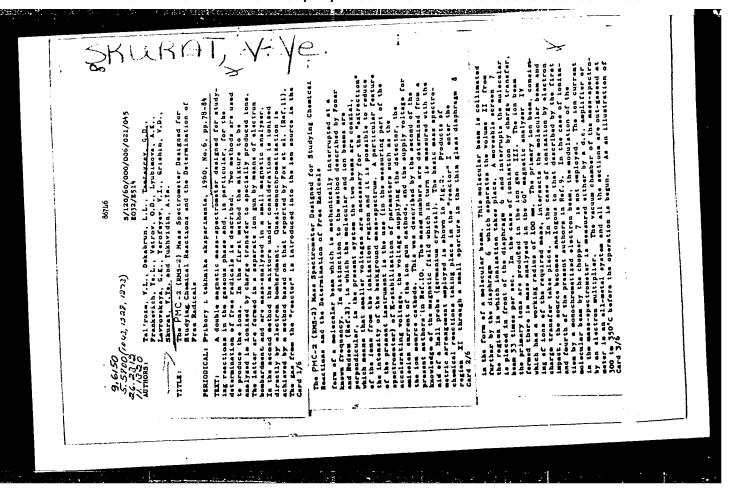
Card 3/4

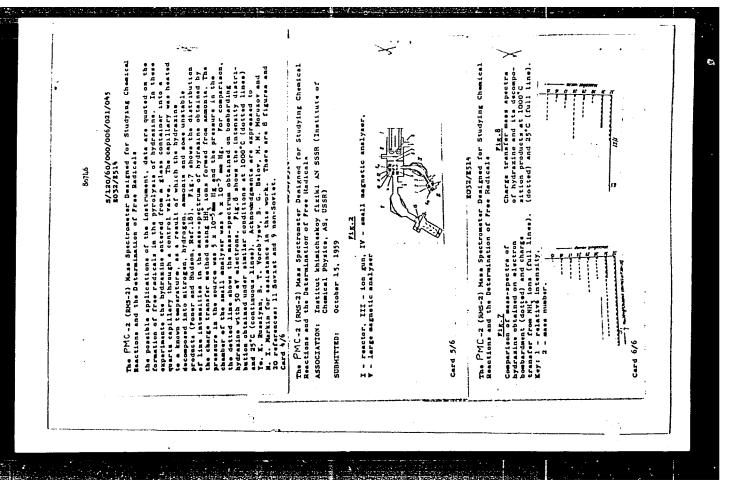
Application of Mass Spectroscopy for Chemical Analysis

sov/63-4-2-4/39

There are 3 diagrams, 2 tables and 126 references, 36 of which are Soviet, 55 English, 11 American, 8 Canadian, 5 German, 5 Belgian, 3 French, 2 Swedish and 1 Polish.

Card 4/4





Isoto is effect in the recitive formation of hydrogen from polycotylene. Redd. N. 1811 1/1 no.1:161-16/1 1/61.

1. Esstitut indicheshoy field N. SCER. Predstavlene claderikon V.N. N. adrat bysym.
(hydrogen--Isotopes)
(Relycothlene)
(Raddetien)

VASIL'YEV, G.K., SKURAT, V.Ye., TAL'ROZE, V.L.

Formation of hydrogen in low-temperature radiolysis of polyethylene. Izv. AN SSSR Ser.khim. no.10:1871-1873 0 '63. (MIRA 17:3)

1. Institut khimicheskoy fiziki AN SSSR.

EWP(j)/EPF(c)/EWT(m)/BDS ASD Pr-1/Pc-1 RM/WW P3003563 S/0020/63/151/002/0388/0391 L 12657-63 AP3003563 ACCESSION NR:

Skurat, V. Ye; Tal'roze, V. L.

TITLE: The formation of HD during the reaction of hydrogen atoms, formed in the gas phase, with solid deuteropolyethyl

SOURCE: AN SSSR. Doklady*, v. 151, no 2, 1963, 388-391

TOPIC TAGS: HD, deuteropolyethyl, activation energy

ARSTRACT: A functional relation between the rate of HD formation during the reaction of H atoms with deuteropolyethyl, containing 98% of D atoms, and temperature is given. It is concluded that no possible "mixtures" in deuteropolyethyl participates in the reaction of HD formation and that the activation energy corresponds to the reaction (1)

 $H + M \rightarrow H_2 + R$

where M is the hydrocarbon and R is the free radical. Thus, it is shown that in solid polyethyl a reaction of type (1) is possible

L 12657-63
ACCESSION NR: AP3003563

during the activity of thermal H atoms on polymers. Orig. art. has: 2 figures. This report was presented by Academician V.N.Kondrat'yev ASSOCIATION: Institut khimicheskoy fiziki, Akademii nauk SSSR (Institute of chemical physics, Academy of sciences, SSSR)

SUBMITTED: 23Mar63 DATE ACQ: 30Jul63 ENCL: 00

SUB CODE: PH, CH NO REF SOV: 005 OTHER: 004

VASIL'YEV, G.K.; SKURAT, V.Ye.; TAL'ROZE, V.L.

gafe at the first transfer for a signaphy and property and the

Gas evolution kinetics in low-temperature radiolysis of paraffin and polyethylene. Dokl. AN SSSR 152 no.2:356-358 S 153.

(MIRA 16:11)

1. Institut khimicheskoy fiziki AN SSSR. Predstavleno akademikom N.N. Semenovym.

EWI(m) DIAAP DM L 27830-65 s/0089/64/017/005/0393/ ACCESSION NR: AP5007359 AUTHOR: Tal!roze, V. L.; Skurat, V. Ye. Certain characteristics of radiolysis with fast electron pulsed beam TITLE: SOURCE: Atomnaya energiya, v. 17, no. 5, 1964, 393-400 TOPIC TAGS: free radical, electron beam, chemical reaction ABSTRACT: The basic characteristics of radiolysis using pulsed accelerated electrons are studied. The dependence of the average stationary concentration of free radicals \sqrt{R} on the reciprocal of the pulse duty factor q of the electron current pulses is calculated on the basis of the typical mechanism of chemical reactions of free radicals formed during the action of the pulsed beam of fast electrons. The calculation was carried out for various powers, corresponding to different rates of freeradical formation, for various times of duration of the current pulses and for various free-radical decomposition constants according to first-and second-order reactions. Graphs of the dependence of \sqrt{R} on q are presented. Card 1/2

L 27830-65 ACCESSION NR: AP5007359				0	
ASSOCIATION: none					
SUBMITTED: 17May63	ENCL: (20	SUB	CODE: NI	
NO REF SOV: OOO	OTHER:	008	NA NA		
Card 2/2			direction.		

ACCESSION NR: AP4016514

S/0020/64/154/005/1160/1162

AUTHOR: Lavrovskaya, G. K.; Skurat, V. Ye.; Tal'roze, V. L.

TITLE: Radiation synthesis of xenon fluorides

SOURCE: AN SSSR. Doklady*, v. 154, no. 5, 1964, 1160-1162

TOPIC TAGS: xenon fluoride, radiation, xenon difluoride, xenon tetrafluoride, infra red spectrum, xenon fluorine radiation

ABSTRACT: A mixture of fluorine and xenon was irradiated with a 1.6-Mev beam of electrons (electron current 30-40 micromps, 10-3 mm. Hg pressure, reactor liquid-air cooled during reaction). After irradiation unreacted F and Xe were measured and removed from the reactor while cooled with liquid nitrogen. After removal of unreacted gases, the reactor pressure at room temperature was 3 mm. Hg, corresponding to the vapor pressure of XeF2 and XeF4. After remaining in the reactor, the Xe fluorides decomposed to F and Xe. Xenon reacts to the extent of 30-50%. The xenon fluorides were identified by their IR

Card 1/2

ACCESSION NR: AP4016514 spectra; and it was found that XeF₂ and XeF₄ were formed to a lesser extent. The radiation dose was about 3000 megarads. The radiation yield, based on xenon consumption, is 0.4-0.7; the same yield is obtained with larger doses. Orig. art. has: 1 table ASSOCIATION: Institut khimicheskoy fiziki, Akademii nauk SSSR (Institute of Chemical Physics, Academy of Sciences SSSR) SUBMITTED: 18sep63 DATE ACQ: 12Mar64 ENCL: 00 SUB CODE: PH, CH NO REF SOV: 001 OTHER: 017

TALTROZE, V.L., doktor khim. nauk, otv. red.; BAGDASAR'YAN, Kh.S., doktor khim. nauk, red.; FRANKEVICH, Ye.L., kand. fiz.-matem. nauk, red.; SKURAT, V.Ye., kand. khim. nauk, red.

[Elementary processes of the chemistry of high energies; transactions] Elementarnye protsessy khimii vysokikh energii; trudy. Moskva, nauka, 1965. 317 p. (MIRA 18:5)

1. Simpozium po elementarnym proteessam khimii vysokikh energii, Moscow, 1963.

MARKOVA, L.G.; SKURATENKO, A.V.

Spore-pollen complexes in Lower Cretaceous sediments of the Trudy SNIGGIMS no.3:189-195 '60.

(MIRA 15:9)

(Turukhan Valley-Palynology)

SKURATOV, A.

Ways to eliminate stray currents. Zhil.-kom.khoz. 7 no.7:18-20
(MIRA 10:10)

'57.

1.Moskovskiy avtodorozhnyy instituta.
(Electric currents, Leakage)
(Electric railroads)

SKURATOV, A.D., red., V redaktirovanii prinimali uchastiye: SHKATOV, K.K.;

FEDOROVA, M.A.; OVCHINNIKOV, A.I.; SIZOVA, A.I.; SIGEL', M.G.;

KAHVETSKIY, A.V.; KULICHKIN, A.V.; NIKOLAYEVA, Z.A.; STEPANOVA,

V.P.; RYZHOVA, V.K.; MUZHIKOVA, V.N., YEREMIN, H.I., red.;

KHAKHAM, Ya.M., tekhn.red.

[Economy of Ul'yanovsk Province; a concise statistical manual]
Narodnoe khoziaistvo Ul'ianovskoi oblasti; kratkii statisticheskii
sbornik. Ul'ianovskoe knizhnoe izd-vo, 1958. 199 p. (MIRA 12:3)

1. Ulyanovsk (Province). Oblastnoye statisticheskoye upravleniye.
2. Nachal'nik Statisticheskogo upravleniya Ul'yanovskoy oblasti
(for Skuratov).

(Ul'yenovsk Province -- Statistics)

KARVETSKIY, A.V.; SIGEL', M.G.; KULICHKIN, A.V.; DEMIN, A.M.; RYZHOVA, V.K.; FEDER, R.M.; MAKAROVA, T.L.; MEYER, R.A.; STEPANOVA, V.P.; SKURATOV, A.D., red.; KHAUSTOVA, A.K., tekhn. red.

[Economy of Ul'ianovsk Province; statistical collection] Narodnoe khoziaistvo Ul'ianovskoi oblasti; statisticheskii sbornik. Ul'ianovsk, 1961. 271 p. (MIRA 15:5)

1. Ulyanovsk (Province) Statisticheskoye upravleniye. 2. Nachal'nik Statisticheskogo Upravleniya Ul'yanovskoy oblasti (for Skuratov). (Ul'ianovsk Province—Statistics)

SERUCATOV, A. I.

"Systems of Underground Mining of Placer Deposits." Sub 28 Dec 51, Moscow Inst of Nonferrous Metals and Gold imeni M. I. Kalinia

Dissertations presented for science and engineering degrees in Moscow during 1951.

S0: Sun. No. 480, 9 May 55

SKURATOVAP

AUTHOR:

Skuratov, A.P.

135-10-11/19

TITLE:

Application of Roller Welding in Manufacture of Water-Heating Columns (Primeneniye rolikovoy svarki pri proizvodstve vodo-

greynykh kolonok)

PERIODICAL:

Svarochnoye Proizvodstvo, 1957, No 10, pp 32-33 (USSR)

ABSTRACT:

The production of household water heaters at the author's plant is described. The longitudinal lap seam of the heater body is pressed flush with the outer body surface (Figure 1) - in order to eliminate the soldering and cleaning operations after welding - on a special machine with pneumatic pressure mechanism (Figure 2). Specialized roller-electrode welding machines are employed for welding the longitudinal seam to the body and assembling the body with the cover, for welding the smoke pipe, and for assembling the body with the bottom. All machines are described and illustrated by kinematic diagrams. It is stated that the modernized roller welding machines have replaced the gas welding method and that the plant makes about 400,000 m of such seams yearly. There are 4 figures.

. 1

Library of Congress

AVAILABLE: Card 1/1

Measures for Reducing the Currents Branching off Into the Ground

SOV/105-58-12-16/28

operating the contact network, (2) the double voltage permits to use the existing railroad electromotors they are connected in series and the common point is connected to the streetcar body (ground). The defects of this solution are higher costs of the contact network, higher costs of new cars, the necessity of modernizing current collectors, starting rheostats, controllers, etc. The advantages offered by this solution are the complete elimination of the stray current problem and the reduction of operating expenses. There are 2 figures, 4 tables, and 12 Soviet references.

SUBMITTED:

August 2, 1956

Card 2/2

SKURATOV, A.S., dotsent

Calculation of currents in complex track circuits of electrified rolling stock. Elektrichestvo no.9:39-45 S '62. (MIRA 15:9)

1. Moskovskiy avtodorozhnyy institut.
(Electric railroads--Wires and wiring)

SKURATOV, A.S.; KULIKOV, A.A., kand. tekhn. nauk, dotsent

Approximate method for the determination of an electric field in a uniform conducting media. Elektrichestvo no.8:29-32 Ag 163. (MIRA 16:10)

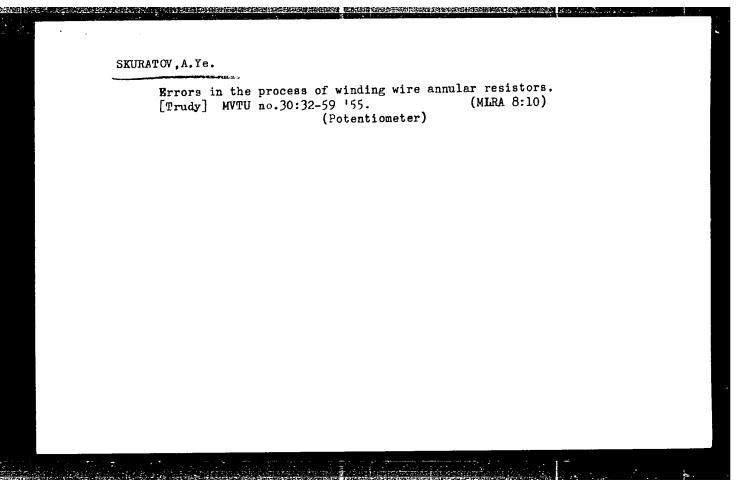
SKURATOV, A. Ye.

Analysis of accuracy in manufacturing wire annular potentiometers.

(MIRA 8:10)

[Trudy] MVTU no.30:8-31 '55.

(Potentiometer)

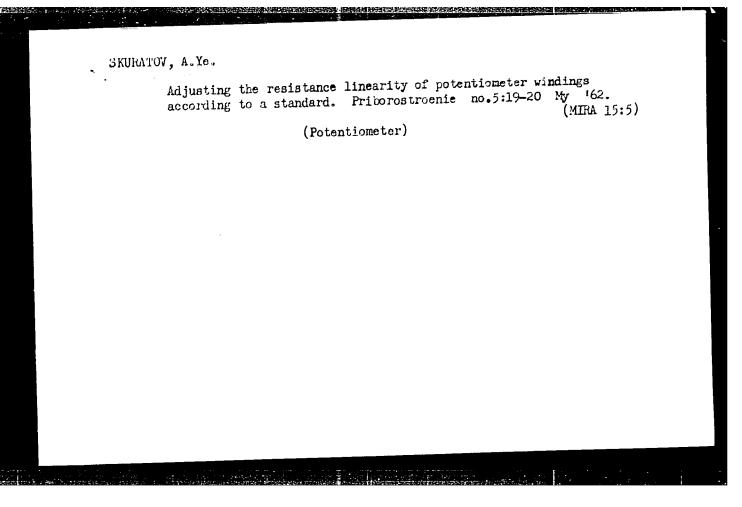


SKURATOV, A.Ye. kand.tekhn.nauk. dotsent

Adjustment of the resistance linearity of potentiometer windings according to the standard. [Trudy] MVTU no.105:104:119 '61.

(Potentiometer)

(Potentiometer)



BELEVTSEV, A.T., kand. tekhn. nauk; GOLIKOV, V.I., kand. tekhn. nauk; GOTSERIDZE, R.M., inzh.; YEFIMOV, V.P., kand.tekhn. nauk [deceased]; KOPANEVICH, Ye.G., kand. tekhn. nauk; MALOV, A.N., prof.; PARFENOV, O.D., kand. tekhn. nauk; ROZENEERG, A.G., tekhn.; SEMIBRATOV, M.N., kand. tekhn. nauk; SKURATOV, A.Ye., kand. tekhn. nauk; SOKOLOVSKIY, I.A., kand. tekhn.nauk; SYROVATCHENKO, P.V., kand. tekhn.nauk; TISHCHENKO, O.F., doktor tekhn. nauk; USHAKOV, N.N., kand. tekhn. nauk; CHUMAKOV, V.P., kand. tekhn. nauk; SHAL'NOV, V.A., kand. tekhn.nauk; SHISHKIN, V.A., kand. tekhn.nauk; SHZHNYY, I.I., inzh.; BLAGOSKLONOVA, N.Yu., red. izd-va; SOKOLOVA, T.F., tekhn. red.

[Manual for engineers in the instrument industry]Spravochnik tekhnologa-priborostroitelia. Pod red. A.N.Malova. Moskva, Mashgiz, 1962. 988 p. (MIRA 16:2) (Instrument manufacture)

SKURATOV, F.M. (Kiyev); MORYAKINA, V.M. (Tomsk); ZAMORSKIY, A.D. (Nal'chik)

Nature calendar. Priroda 51 no.11:127-128 N '62. (MIRA 15:11)

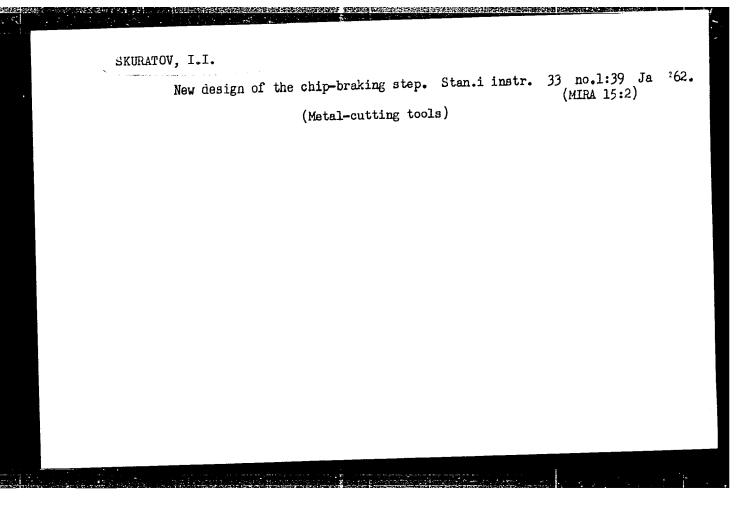
1. Sibirskiy botanicheskiy sad (for Moryakina). 2. Geofizicheskiy vysokogornyy institut AN SSSR (for Zamorskiy).

(Nature study)

SKURATOV, I.

We are laying walls efficiently and cheaply. Sil'.bud.
10 no.2:15 F '60. (MRA 13:5)

1. Tekhnicheskiy rukovoditel' Putivl'skoy mezhkolkhoznoy
stroitel'noy organizatsii.
(Putivil District--Bricklaying)



- 1. SKURATOV, I. S.: DANILEVSKIY, N. V.
- 2. VIST (600)
- 4. Dairy Cattle
- 7. Practice of a leading miklmaid. Dost.sel'khoz., no. 12, 1952.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

SKURATOW, I.S., starshiy nauchnyy sotrudnik.

Forage lupine in poultry rations. Mauka i pered.op.v sel'khoz.7
no.1:31-32 Ja '57.

1. Ukrainskaya opytnaya stantsiya ptitsevodstva.
(Lupine) (Poultry--Feeding and feeding stuffs)

SKURKTOV

USSR/Form Iminals - Toulkry,

0-3

Abs Jour : 1.250 - Biol., 1.2, 1.7 949

Author

: Chumavov, I.C.

Inst Title

· Fooding Foultry With Pilipa

Orig Pub : Krimmus., 1958, No 2, 50-50.

Therefore : In one appearment, the groups of hers were full with 70%unime; the first group was additionally given small werpileaks and the second group, folder Lupine. The current group was fed with lengths and cilcake. The easy yield - 150 days answided to 30 edgs for the second group, She eggs for the control group, and 81 aggs for the first group. In another organizate, here were fed with combined siluge considering of the of wix-inturity mains (50%), commute with tops (25%), and green clover (25%). The hous and with 60-80 farms daily of such ensilage had a 10% higher agg yield.

Card 1, 1

Feeding corn silage to poultry. Ptitsevodstvo 9 no.4:13-16
Ap '59. (MIRA 12:6)

1. Ukrainskay: opytnaya stantsiya ptitsevodstva.
(Corn (Maize)) (Poultry--Feeding and feeding stuffs)

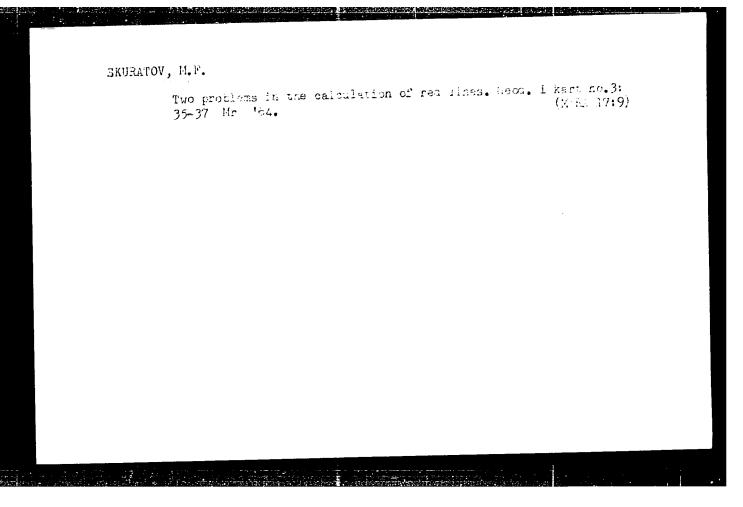
THE STATE OF THE S

SKURATOV, Ilarion Sergeyevich, kand. sel'khoz. nauk; SHCHERBINA,
Petr Filippovich [Shcherbyna, F.F.], kand. sel'khoz. nauk;
KUZ'MINA, M.F., red.; GULENKO, O.I.[Hulenko, O.I.], tekhn.
red.

[Raising ducklings for meat] Vyroshchuvannia kacheniat na m'iaso. Kyiv, Derzhsil'hospvydav, 1963. 39 p. (MIRA 17:1)

Gomrade director. NTO 5 no.11:41-43 N *63. (MIRA 16:12)

1. Spatsial'nyy korrespondent zhurnala "Nauchno-tekhnicheskiye obshchestva SSSR".



KUL'BA, F.Ya., MIRONOV, V.Ye.; ROZHANOVSKAYA, L.F.; SKURATOV, O.A.

Trivalent inallium bromide, iodide, and nitrate compounds with 3.3'-dipyridyl. Zhur. neorg. khim. 9 no.7:1630-1632 /11 '64. (MIRA 17:9)

1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta, kafedra obshchey khimii.

SKURATOV, S. M.

phosphoric acid.

POPOV, M. M., FEODOSSIYEV, N. H., and SKURATOV, S. M. CA: 29-1315/7 Trans. Sci. Inst. Fertilizers (USSR) No. 110, 23-34 (1933) The heat capacity of aqueous solutions of

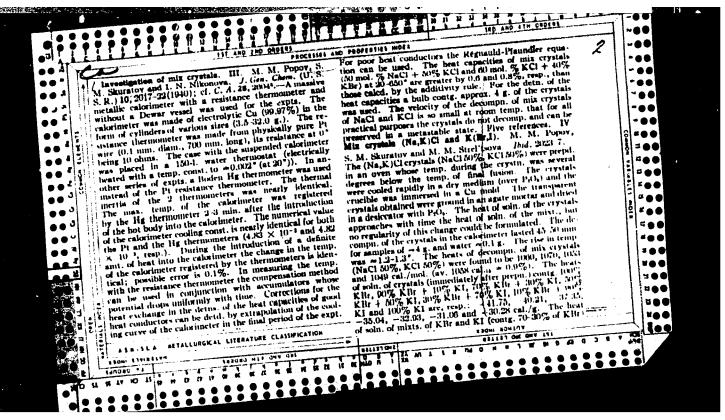
RESTRICTED

SKURATOV, S. M.

POPOV, M. M., SKURATOV, S. M. and FEODOSSIEV, N. N. Z. physik. Chem. A167, 42-3 (1933)
Determination of the specific heat of aqueous solutions of phosphoric acid.

CA: 28-1256/8

RESERVED



mereases slowly with time; hence mix crystals are formed at room temp. The heats of soln, of untempered crystals (1 hr. after prepn.) cong. 90% KBr + 10% KI, 70% KBr + 30% KI, 50% KBr + 50% KI (1.5 hrs. after prepn.), 30% KBr + 70% KI and 10% KBr + 90% KI are, resp.: -38.70, -34.00, -32.08, -30.66 and -30.11 cal./g. The heat of soln, of untempered crystals (KBr 190%) does not change with time (up to 4 months). The heat of soln, of untempered crystals contg. KBr 70% does not change with time (up to 3 months). The heat of soln, of untempered crystals contg. KBr 30% increases with time (by 0.2.0, 1.0% during 4 months), reaching a const. value after 0 months (-30.30 cal./g.). The heat of soln, of untempered crystals contg. KBr 10% increases slowly with time (by 0.2.0 after 4 months). The heat of soln, of the tempered and untempered crystals contg. KBr 50% increases considerably with time; the rate of the change for the tempered and untempered crystals to different, but the limit of their change is the same. The heat of soln, of crystals kept in open air changes considerably more than that of crystals kept in hermetically sealed containers.

•

••

••

..

..

..

••

••

••

• •

••

••

..

••

..

••

• •

.

• •

••

••

.

a soble metals. M. M. Popov, Yu. P. Simonov, S. M. Suratov and M. N. Suzdal'tseva. Ibid. 2028-40-X-ray investigations showed superstructural lines in mix crystals KCl-KBr of any compn. and obtained by any method; the verying values of the heat of soln. can be explained by a difference in the crystallographic lattice of KCl. By different thermal treatments there were obtained prepns, of KCl which differ from each other in their heats of soln. by 1.6% and in the presence of "excessive" weak lines in their a-ray photographs. The av. lattice const. cakef. from all 27 ordinary KCl lines on the view photographs is $a_1 = 0.278 \times 0.001$ A. Besides these 22 lines there are also observed 15 very weak lines [$a_1 = 0.01$ A. = 0.00 A.]. It were weak lines [$a_1 = 0.01$ A. = 0.00 A.]. It were weak lines [$a_1 = 0.01$ A. = 0.00 A.]. The abs., no. of the "excessive" lines of the same prepn. remains strictly const. Analogous phenomena were observed in KBr, NaCl, NaP, KI and CaBr. X-ray investigations of Ag, Au and Pt prepns, obtained by different thermal treatments also showed that they differ from one another by the presence or absence of "excessive" weak lines. These lines are in addit, to the usual lines of Ag, Au and Pt observed on x-ray photographs. Eleven references.

••

••

..

.

..

••

••

••

••

••

••

••

••

••

••

••

••

.

.

•

••

APPROVED FOR RELEASE: 08/24/2000 CIA-RDP86-00513R001651210012-2"

PA 21T111

SKURATOV, S. M.

USSR/Physics
Specific Heat
Calorimetry

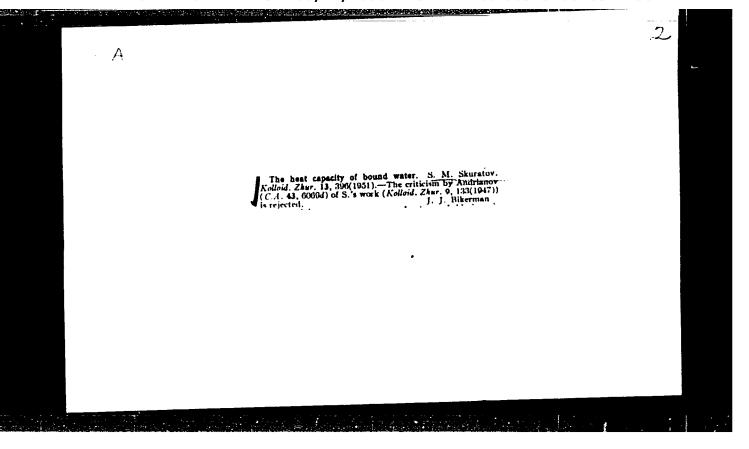
Sep 1946

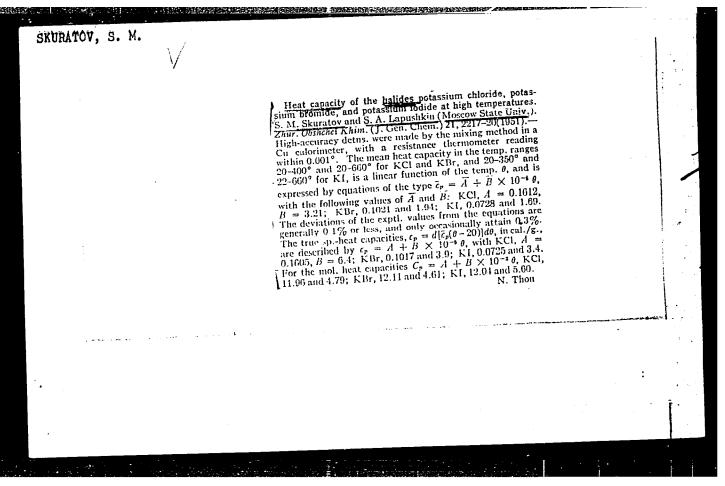
"Specific Heat of Water Boundary by High-Polymeric Substances," S.M.Skuratov, M.S.Shkitov, 3 pp

"Comptes Rendus (Doklady)" Vol LIII, No 7

The article describes a special calorimeter for measuring the true specific heat of liquid and solid substances. Accurate values would mermit a method of determining the amount of bound solvent, as suggested by Dumanskiy. Tables of calorimetric results are given, on gelatin and starch-jelly.

21T111





SKURATOV, S. M.

USSR/Chemistry - Oxidants

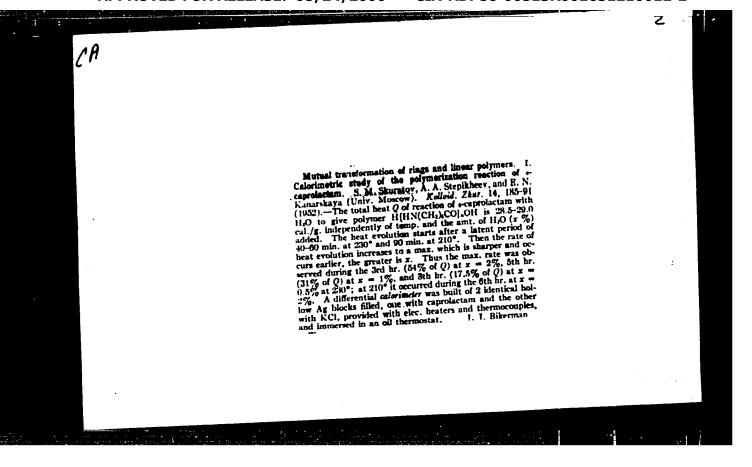
Jul 51

"Specific Heats of Certain Peroxides and Hydroxides of Alkali Metals," A. V. Bedeneyev, S. M. Skuratov, Lab of Inorg Chem, Phys Chem Inst imeni L. Ya. Karpov

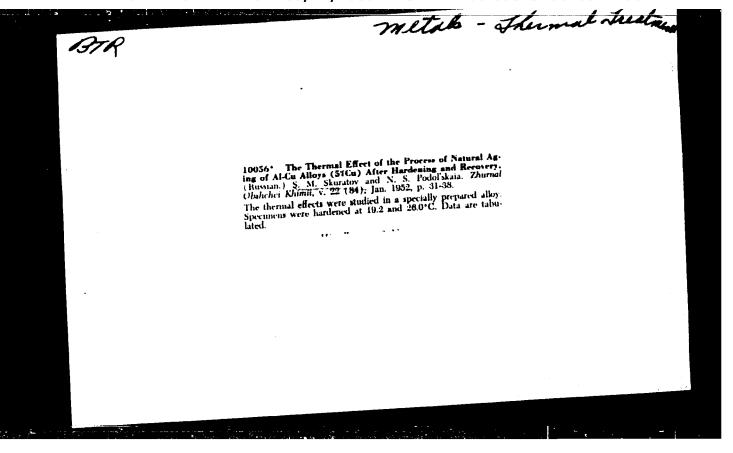
"Zhur Fiz Khim" Vol XXV, No 7, pp 837-840

With aid of heavy (large capacity) adiabatic calorimeter constructed at Thermal Lab, Moscow State U, measurements were made of av sp heats in temp range 19-100°C of KO₂, NaO₂, Na₂O₂, BaO₂, KOH, and NaOH.

206**T**25

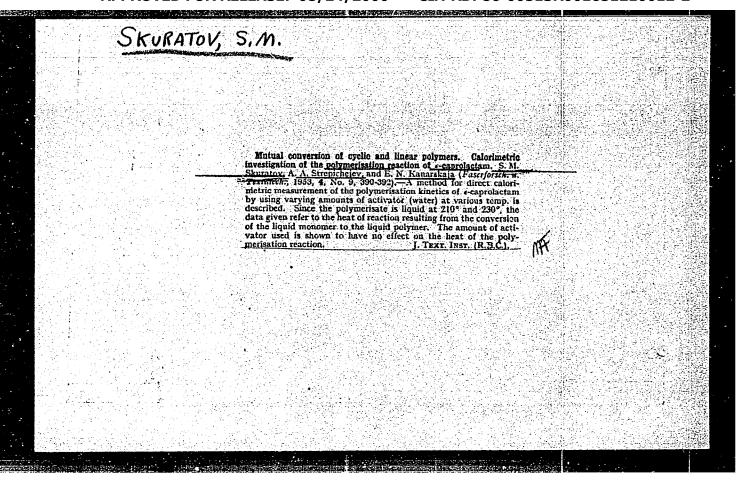


	SITURATOV, S. I'.		
			
	Chemical Abst. Vol. 48 No. 9 Vol. 49 No. 9 Congress and Physical Chemistry	Mutual transformation of ring Calorimetric investigation of the caprolactam. S. M. Skuratov S. N. Kanarskaya (Moscow U.S.S.R.) 14, 207-14 (1952) En 46, 8508c.	and linear polymers. I. polymerization reaction of A. Strepikheev, and State Univ.). Colloid J. gl. translation).—See C.A. H. L. H.
-			



SKURATOV, S. M.	USSR/Chemistry - Calorimetry (Contd) measured for exptl checking of method. With this method, only a few grams of the substance are needed. The margin of error is 1%.	Describes construction of heavy copper calorimeter and methods for using it to measure latent heat of evapn of highly volatile liquids at temps from room temp to 100°C. Latent heat of evapn of toluene was	"Calorimeter for Determination of Latent Heats of Evaporation of Highly Volatile Liquids at Different Temperatures," S. M. Skuratov, O. N. Kachinskaya, Thermal Lab imeni Prof V. F. Luginin, Moscow State U "Zhur Obshch Khim" Vol XXII, No 1, pp 76-81	USSR/Chemistry - Calorimetry Jan 52

	7 8	1				ł
23 ⁴ T35	reaction at any point in the temp range of 200-240°. Presented by Acad N. N. Semenov 27 Aug 52.	The polymerization reaction of caprolactam was carried out in a specially made calorimeter and the kinetic and heat effect of the reaction studied. A formula is derived for the rate of the	"Dok Ak Nauk SSSR" Vol 86, No 6, pp 1155-1158	"The Kinetics and Heat Effect in the Polymerization Reaction of Caprolactam," S. M. Skuratov, A. A. Strepikheyev, V. V. Voyevodskiy, Ye. N. Kanarskaya, Moscow State U imeni M. V. Lomono-sov	USSR/Chemistry - Synthetic Fibers 21 Oct 52	



SKURATOV, S. M. Docent, STREPIKHEYEV, A. A., Prof., MUROMOVA, R. S., KACHINSKAYA, O. N. BRYKINA, Ye. P., SHTREKHER, S. M. and SHUKO, V. D.

"The Heat of Combustion of Lactams and Amino Acids," a paper given at the All-University Scientific Conference "Lomonosov Lectures", Vest. Mosk. Un., No.8, 1953.

Translation U-7895, 1 Mar 56

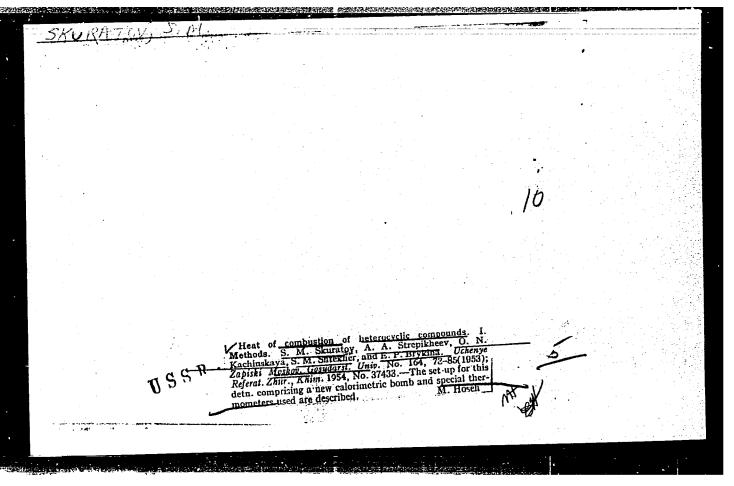
قرير (المرابع المرابع

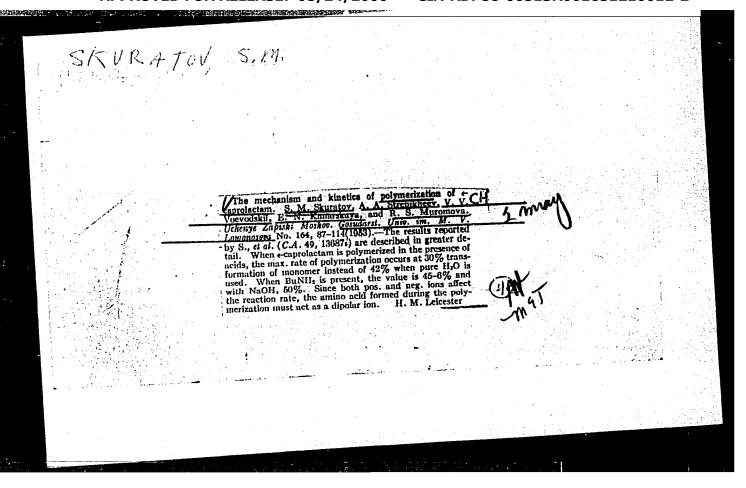
errande per sie de la composition de la company de la composition de la composition de la composition de la com La composition de la La composition de la

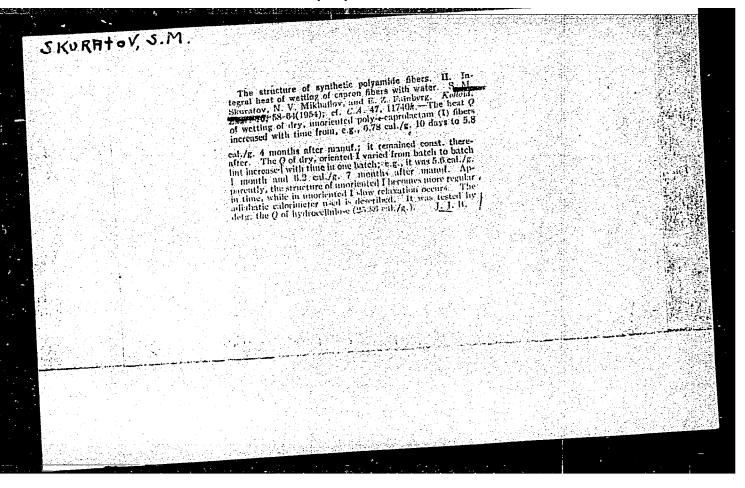
and the mark of the processing the mark

Determined the editerior of orientation (new tricky) of only marcia that dibers of the adsorption and lawred adver. Shaped that to be middle it to desor the first braces of vator from sem-orientaria? If his history that impeded desorption is the test presence of certain types of hydrotte and, and the the order of characters and pressure.

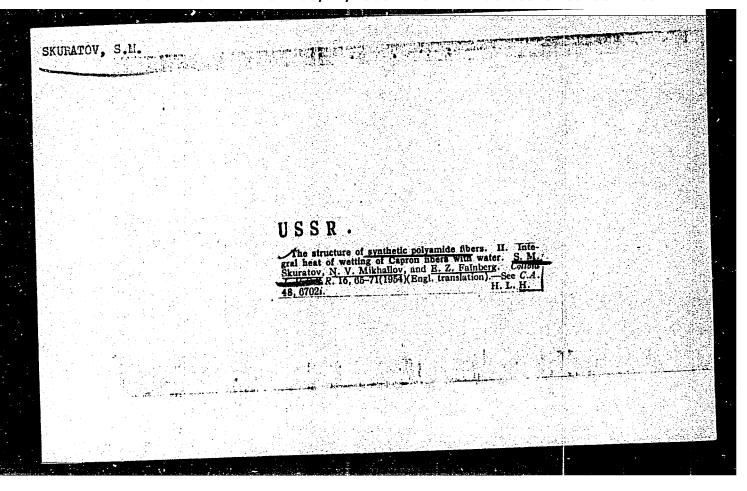
270713

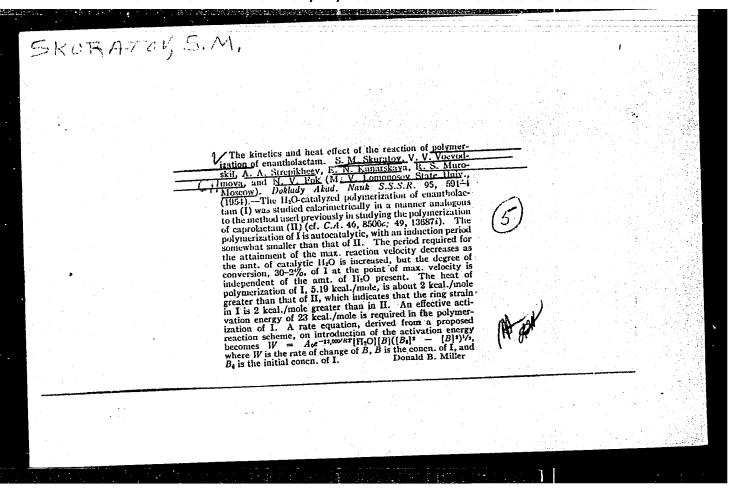






"APPROVED FOR RELEASE: 08/24/2000 CIA-RDP86-00513R001651210012-2





SKURATOV, S.M.; VOYEVODSKIY, V.V.; STREPIKHEYEV, A.A.; KANARSKAYA, Ye.N.; MUROMOVA, R.S.

Acid catalysis of the polymerization of &-caprolactam. Dokl.AH SSSR 95 no.4:829-832 Ap *54. (MLRA 7:3)

1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova.
2. Vsesoyuznyy nauchno-issledovatel'skiy institut iskusstvennogo
volokna. 3. Institut khimicheskoy fiziki Akademii nauk SSSR.
(Polymers and polymerization) (Caprolactam)
(Acids)

SKURATOV, S.M.; VOYEVODSKIY, V.V.; STREPIKHEYEV, A.A.; KANARSKAYA, Ye.N.; MUROMOVA, R.S.

Catalysis of the reaction of polymerization of E-caprolactam by bases. Dokl. AN SSSR 95 no.5:1017-1020 Ap '54. (MLRA 7:4)

1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova Vsesoyusnyy nauchno-issledovatel'skiy institut iskusstvennogo volokna Institut khimicheskoy fiziki Akademii nauk SSSR. Predstavleno akademikom V.N.Kondrat'-yevym. (Polymers and polymerization) (Caprolactam)

SKURATOV, S. M

USSR/ Chemistry - Organic chemistry

Card 1/1

Pub. 22 - 26/49

Authors

Strepikheyev, A. A.; Skuratov, S. M.; Kachinskaya, O. N.; Moromova, R. S.;

Brykina, Ye. P.; and Shtekher, S. M.

Title

The intensity of lactam

Periodical

Dok. AN SSSR 102/1, 105-108, May 1, 1955

Abstract

Experiments were conducted to determine the heat of combustion of certain lactams and to estimate their intensity on the basis of data obtained. The simplest and most direct way of determining the intensity of the cycle was found to be the comparison of the combustion heats of a monomeric cyclic compound to that of a homologous polymer. Another way of determining the intensity is also described. Six references: 4 USSR; 1 USA and 1 Fr.

(1947-1954). Tables.

Institution :

The Moscow State University im. M. V. Lomonosov

Presented by :

Academician I. L. Knunyants, December 13, 1954

CIA-RDP86-00513R001651210012-2 "APPROVED FOR RELEASE: 08/24/2000

SKURATOY S.M.

USSR/ Chemistry - Organic chemistry

Card 1/1

Pub. 22 - 33/62

Authors

Strepikheyev, A. A.; Skuratov, S. M.; Shtekher, S. M.; Muromova, R. S.;

Brykina, Ye. P.; and Kachliskaya, O. N.

Title

! Interaction of amino- and carboxyl groups in amino acids

Periodical

Dok. AN SSSR 102/3, 543 - 545, May 21, 1955

Abstract

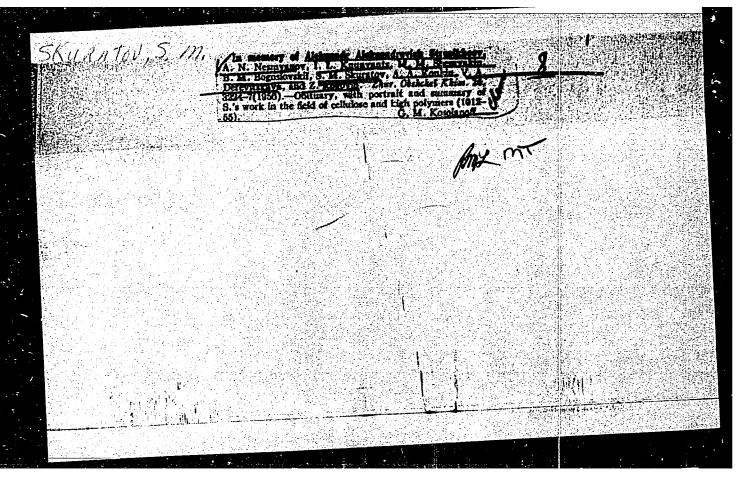
It is known that the interaction of atoms in a molecule or the interaction of molecules in a substance in different phase and states of aggregation is one of the most important factors in determining the properties of chemical compounds including their reactivity. Results obtained during the determination of heats of combustion of several amino acids of the fatty series having the amino group in different arrangements relative to the carboxyl are presented. The interaction of amino and carboxyl groups in amino acids was also used as a basis in determining the heat of combustion of salts of alkylenediamines with alkylenedicarboxylic acids. Three references: 2 USSR and 1 French (1927-1954). Tables.

Institution:

The M. V. Lomonosov State University, Moscow

Presented by:

Academician I. L. Knunyants, December 13, 1954



SKURATOV S.M.; STREPIKHEYEV, A.A. [deceased]; SHTEKHER, S.M.; VOLOKHINA, Polymerization enthalpy of cyclic formals. Dokl. AN SSSR 117 no.2:

(MIRA 11:3) 263-265 N 157.

1. Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova. Predstavleno akademikom A.A. Balandinym. (Acetals)

Skuratov, S.M.

20-3226/52

Skuratov, S. M., Strepikheyev, A. A. (Deceased), Kozina, M. P.

AUTHORS:

TITLE:

The Reactivity of 5- and 6-Member Heterocyclic Compounds (O reaktsionnoy sposobnosti pyati- i shestichlennykh geterotsiklicheskikh soyedineniy)

Doklady AN SSSR, 1957, Vol. 117, Nr 3, pp. 452 - 454 (USSR)

ABSTRACT:

PERIODICAL:

The enthalpy on the cyclization can characterize the reactivity of a given cyclic compound in the well known manner during its transformation into linear compounds. The main problem of this paper is to extend the conclusion drawn to γ - and δ -monosaccharides the polymerization of which may play an important part in the biosynthesis of natural compounds. Besides, it was possible, in this synthesis of natural compounds. paper, to clear up several other interesting problems. The enthalpy of the cyclization of a given cyclical compound can be computed in two ways: 1.) By comparing the experimentally determined combustion heat of this compound with its combustion heat added up from the increments of the corresponding groups. 2.) By comparing the combustion heat of the 5-member and 6-member compounds of a given series. For the determination of the enthalpy of cyclization of the 5-member cycle a formula is given. The experimentally determinable quantities are the combustion heats of the respective

Card 1/3

20-3-26/52

The Reactivity of 5- and 6-Member Heterocyclic Compounds

compounds. The calorimetric apparatus and the method for measuring the combustion heats have already been described (reference 6). The combustion heats of all investigated substances are shown in a table. The data obtained allow, among others, the following conclusions: The enthalpy of the cyclization of a 6-member cycle is nearly equal to zero, but for a 5-member cycle this enthalpy is nearly equal to zero, but for a 5-member cycle this enthalpy is nearly equal to zero, but for a similar structure); for this purhydrocarbon (or a substance of similar structure); for this purhydrocarbon (or a substance of similar structure); for this purhydrocarbon (or a substance of similar structure); for this purhydrocarbon may be applied in the case of the class of hydrocarbons. It may be assumed that in hydrocarbons the enthalpy of the cyclization of a 6-member cycle is nearly equal to zero. This permits tion of a 6-member cycle is nearly equal to zero. This permits estimation of the enthalpy of the cyclization of a 5-member cycle of Bd-CH₂-glucofuranocide by comparing its combustion heat with of Bd-CH₂-glucofuranocide by comparing its combustion heat with are 1 table and 14 references, 4 of which are Slavic.

Card 2/3

20=3=26/52

The Reactivity of 5- and 6-Member Heterocyclic Compounds

ASSOCIATION: Moscow State University imeni M. V. Lomonosov

(Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova)

. PRESENTED:

May 25, 1957, by A. A. Balandin, Academician

SUBMITTED:

May 16, 1957

AVAILABLE:

Library of Congress

Card 3/3

Heat of combustion of cycloheptanone. Khim.nauk i prom. 3
(MIRA 11:11)
no.5:688 '58.

1. Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova.
(Cycloheptanone) (Heat of combustion)

是我们的国际社会。 第一个人,我们就是一个人,我们就是一个人,我们就是我们的人,我们就是我们的人,我们就是我们的人,我们就是我们的人,不是不是一个人,我们就是一个人,不是不是一个人

TITLE Trained and be developed by PREIODICAL: Trained and be developed by PREIODICAL: Trained and be developed by the develop	Geralmor, Ye. I., Versain, Ye. H., Kiselev, A. T., Enhilov, Y. Landston, S. K., Toponiyeva, K. V., Shakhparonov, M. I. Chining and Education of Teachers of Higher Schools.	ate and Researchers ateley yeshey enkoly i malchnyk rabbankov) kogo universiteta. Seriya matematiki, mekhanki, r atki, khimili, 1958, Br 6, pp 235 - 238 (usus)	According to the opinion of the authors the actual frauning and exceeds of qualified specialism in the field of manuful actuation of qualified specialism in the field of matural actual services and specialism in the field of matural actual services are accordingly preservating into all anoses, fields of theoretical and experimental sort in the domain of physics and physical chemistry, and of the other editing and physical chemistry, and of the other editing and proving again the trule is no short for defining and proving again the trule of the scrittical investigation correct out it is obvious that the brevity of the specimen the conditions from secending in their investigations are prevents the conditions to a sort estimately into prevents and proving obstitution of the scrift investigation operating of the scritting there is no possibility of selecting cortain sort interesting these.	and the like, Finally the time is too short for giving the anadidate a sufficient pedagodical training. Commonship; it anadidates is unggested to replace the train of commonship; it magneted to replace the train of conditions which the problem of the satisfiest will be conditioned according to pedagogical principles and the actentific investigations the peaced is the satisfies on only be passed, if the analization of the peaced is principle as an interest to produce a condition of principles actentific regards and passed the anabar of principles actentific reports, and of haring nearest as the interest and of particular actentific reports, and of haring completed his with a their of foright anapares. After haring completed his with a their decreased of actions the way other about the beauties of all and of their class and of their sealest and of their class and of sealest and of their class and of states and address the agreement of the assistants. The actions begins a below obset result of this entitled. The actions believe that the obset result of this server and in the good training both in the scientific restrants and the trial of the assistant and the trial of the assistant and the sealest and the trial of the assistant and the sealest and the trial of the assistant and the sealest and the trial of the assistant and the sealest and the trial of the assistant and of the assistant and the sealest and the trial of the assistant and of foreing first class the action instructors to the assistant and the trial of the assistant and of foreing first class the action instructors.	
					3/3

3-58-7-3/36

Gerasimov, Ya.I., Yeremin, Ye.M., Kiselev, A.V., Skuratov, S.M., AUTHORS:

Topchiyeva, K.V., Professors; Shakhparonov, M.I., Doctor of

Chemical Sciences and Lebedev, V.P., Dotsent

The National Economy Needs Physico-Chemists (Narodnomu kho-TITLE:

zyaystvu nuzhny fiziko-khimiki)

Vestnik vysshey shkoly, 1958, Nr 7, pp 14-16 (USSR) PERIODICAL:

The authors stress the necessity of creating special faculties ABSTRACT:

on physico-chemistry in universities. At present, faculties train chemists whose knowledge of physics is rather limited. The student is not trained in a special branch of chemistry, and the shortage of time does not allow him to develop his

knowledge of practical methods.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet imeni Lomonosova

(The Moscow State University imeni Lomonosov)

Card 1/1

GERASIMOV, Ya.I.; YEREMIN, Ye.N.; KISELEV, A.V.; LEBEDEV, V.P.; SKURATOV, S.M.; TOPCHIYEVA, K.V.; SHAKHPARONOV, M.I.

Methods of preparing scientific workers and teachers of institutions of higher education. Vest. Mosk.un. Ser. mat., mekh., astron., fiz., khim. 13 no.1:235-238 '58. (MIRA 12:4) (Science-Study and teaching)

sov/76-32-11-19/32 Voroblyev, A. F., Skuratov, S. M. 5(4)

Using the Electric Arc in Calorimetry (Ispol'zovaniye elektri-AUTHORS: TITLE:

cheskoy dugi v kalorimetrii)

Zhurnal fizicheskoy khimii, 1958, Vol 32, Nr 11, pp 2580-2585 PERIODICAL:

A special calorimetric bomb was constructed (Fig). The combustion of the sample is carried out by means of an electric ABSTRACT:

arc formed between a tungsten electrode and the shell(for the sample) made of tantalum or heat resistant steel. An open calorimeter with an isothermal water jacket was used. In the latter the temperature was exactly maintained at 0.01°. To determine the energy of the electric arc a special electrodynamic d.c. meter was constructed (with V. A. Matsnev, Engineer, taking part in this work). The results obtained in

calibrating the meter are given (Table 1). The heat value of the calorimeter was determined according to the diathermal

method. A standard benzoic acid was used that had been synthesized by the Vsesoyuznyy nauchno-issledovatel'skiy institut

metrologii im. D. I. Mendeleyeva (All-Union Scientific Research

Card 1/2

sov/76-32-11-19/32

Using the Electric Arc in Calcrimetry

Institute for Metrology imeni D. I. Mendeleyev). The obtained values are given (Tables 2 and 2a). The enthalpy of the magnesium exide formation was determined by means of the calorimeter described. The combustion took place at an oxygen pressure of 1.5 atmospheres absolute pressure. The experimental results obtained (Table 3) agree well with the values given in publications (Refs 3-8). It is assumed that the measurement method described will be applied within a wide field of measurements of the heat effects of high-temperature reactions. There are 1 figure, 3 tables, and 9 references, 1 of which is Soviet.

ASSOCIATION:

Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova

(Moscow State University imeni M. V. Lomonosev)

SUBMITTED:

May 25, 1957

Card 2/2

SOV/20-122-1-30/44

5(4) AUTHORS: Skuratov, S. M., Kozina, M. P.

TITLE:

The Combustion Heat of Tetrahydropyrane (Teplota goreniya tetragidropirana)

TERIODICAL:

Doklady Akademii nauk SSSR, 1958, Vol 122, Nr 1, pp 109-110 (USSR)

ABSTRACT:

In the Thermochemical Bulletin 1957, Nr 3, the values of the combustion heat of tetrahydrofuran and tetrahydropyrane were published. (These values were found in an English and in a Soviet Laboratory). For tetrahydrofuran, the difference between the results of the 2 laboratories is relatively small, but it amounts to 0,5 % for tetrahydropyrane. Such a difference cannot be explained by the errors of the calorimetric measurements, but it is caused, evidently, by the insufficient purity of the substance. Therefore, English authors and the authors of this paper decided to repeat the measurements of the combustion heat of tetrahydropyrane. The value found by English authors was practically equal to that published in the Thermochemical Bulletin. This paper, however, gives the results of the repeated determina-

Card 1/2

The Combustion Heat of Tetrahydropyrane

SOV/20-122-1-30/44

tion of the combustion heat of tetrahydropyrane. This substance was purified in various ways. The combustion heats of these samples were equal within the limits of experimental errors. The results of this paper are given in a table. According to these results, the tetrahydropyrane investigated by the authors may be considered as being sufficiently pure. There are 1 table and 2 references, 1 of which is Soviet.

5011

June 30, 1958, by A. H. Frumkin, Academician

SUBMITTED: July 1, 1958

Card 2/2

PRESENTED:

5(3)

sov/156-59-1-28/54

AUTHORS:

Bonetskaya, A. K., Skuratov, S. M., Monayenkova, A. S.

TITLE:

The Determination of the Purity of Organic Substances With the Aid of Melting Curves (Opredeleniye chistoty organicheskikh

veshchestv po krivym plavleniya)

PERIODICAL:

Nauchnyye doklady vysshey shkoly. Khimiya i khimicheskaya

tekhnologiya, 1959. Nr 1, pp 113-116 (USSR)

ABSTRACT:

A method is proposed for which only small quantities are required (0.4 mole). The apparatus shown comprises an aluminum block, which is electrically heated from the outside and in which the cone-shaped measuring vessel is introduced. In the measuring vessel (which consists of 0.4 mm thin silver plate) a solid silver cone is centrically suspended with a clearance of 0.6-0.7 mm between the cone and the wall of the measuring vessel. The cone contains a thermocouple of high sensitivity. The temperature gradient between the aluminum block and the sample is maintained constant by another thermocouple. The sample is introduced in a molten state into the measuring vessel and the silver cone is suspended in the vessel to urge the sample as a thin layer against the wall of the vessel. The apparatus was tested with diphenyl-amine,

Card 1/2

sov/156-59-1-28/54

The Determination of the Purity of Organic Substances With the Aid of Melting Curves

diphenyl and caprolactam, to which up to 1 mole-percent of other substances had been admixed. The tables show that impurities between 0.3 and 0.7 mole-percent were indicated with an accuracy of + 0.03 mole-percent. Ye. N. Kanarskaya, I. Ye. Paukov, V. V. Ponomarev, and Yu. I. Rubtsov assisted in this work. There are 1 figure, 2 tables, and 9 references, 1 of which is Soviet.

ASSOCIATION: Kafedra fizicheskoy khimii Moskovskogo gosudarstvennogo

universiteta im. M. V. Lomonosova (Chair of Physical Chemistry of Moscow State University imeni

M. V. Lomonosov)

June 28: 1958 SUBMITTED:

card 2/2

sov/78-4-6-3/44 Kolesov, V. P., Popov, M. M. (Deceased), Skuratov, S. M. 5(4) The Formation Enthalpy of Beryllium Fluoride (Ental'piya AUTHORS: obrazovaniya ftoristogo berilliya) TITLE: Zhurnal neorganicheskoy khimii, 1959, Vol 4, Nr 6, pp 1233-1236 PERIODICAL: An experimental determination of the formation enthalpy of BeF, in crystalline modification was carried out. A direct method was used for the determination of the formation enthal-ABSTRACT: py of the crystalline beryllium fluoride from simpler components. The following reactions were taken into account: (1) Be_{cryst} $+\frac{1}{2}$ O_{2 gas} = BeO; Δ H₁ $BeO+2HF_{solution}$ 342HF.1300H₂0 = BeF_{2} solution BeF_{2} .340HF.1301H₂0 + H₂O_{solution} BeF₂.340HF.1301H₂O; ΔH₂ BeF₂ cryst + solution 340HF.1301H₂0=BeF₂ solution BeF₂.340HF. . 1301H₂0; ∆H₃

APPROVED FOR RELEASE: 08/24/2000 CIA-RDP86-00513R001651210012-2"

Card 1/3

sov/78-4-6-3/44 The Formation Enthalpy of Beryllium Fluoride

$$\begin{array}{l} 2 \text{ gas} \\ 1300 \text{ H}_2 \text{ o}; & \Delta \text{ H}_4 \\ \text{H}_2 \text{ gas} & + \frac{1}{2} \text{ O}_2 \text{ gas} \\ \end{array} + \text{ solution } 3400 \text{HF.} 1300 = \text{H}_2 \text{O}_{\text{solution }} 340 \text{HF.}$$
(5)

Be cryst + F2 gas = BeF2 cryst; AH formation $\Delta H_{\text{formation}}^{\text{o}} = \Delta H_1 + \Delta H_2 + \Delta H_4; \Delta H_3 - \Delta H_5$

Beryllium fluoride was produced by thermal dissociation of Beryllium fluoride was produced by thermal dissociation of ammonium beryllium fluoride in the argon current at 360-380°. The compound (NH₄)₂BeF₄ was produced by G. I. Vorob'yeva.

The calorimetric determinations were carried out in a platinum calorimeter. The temperature during the calorimetric determinations could be determined with an accuracy of 0.0002-0.00030. The enthalpy of the reaction BeO with hydrofluoric acid

Card 2/3

sov/78-4-6-4/44 5(4)

Kolesov, V. P., Skuratov, S. M., Zaykin, I. D. AUTHORS:

The Formation Enthalpy of Lithium Oxide (Ental'piya obrazovaniya TITLE:

okisi litiya)

Zhurnal neorganicheskoy khimii, 1959, Vol 4, Nr 6, pp 1237-1240 PERIODICAL:

(USSR)

The enthalpy of the reaction of crystalline lithium oxide with ABSTRACT:

water was calculated. Purest lithium oxide was used as initial material. The analysis results concerning the purity of lithium oxide are summarized in table 1. The calorimetric determinations were carried out with the apparatus mentioned in reference 6, the results are given in table 2. The reaction enthalpy of lithium oxide with water amounts to $\Delta H = 31.41\pm0.08$ kcal/mol at 20°, and that of Li 0 to $\Delta H = -142.8 \pm 0.3$ kcal/mol at 25°. There are 2 tables and 17 references, 3 of which are Soviet.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova

(Moscow State University imeni M. V. Lomonosov). Termokhimicheskaya laboratoriya im. V. F. Luginina (Thermochemical Labora-

tory imeni V. F. Luginin)

March 5, 1958 SUBMITTED:

Card 1/1

Card 1/4

66897 sov/126-8-1-15/25 18. 8000 Popov, M. M., Timokhina, Ye. N., Skuratov. s.M. and 18.1210 Latent Energy of Plastic Deformation of Alloy of AUTHORS: PERIODICAL: Fizika metallov i metallovedeniye, 1959, Vol 8, Nr 1, TITLE: ABSTRACT: Some of the work of plastic deformation is stored in the metal as internal stresses and only appears as heat when these stresses are removed by annealing. This latent energy of deformation can be found from measurements of the difference between the specific heats (or apparent specific heats) of the deformed alloy in the un-annealed and annealed states. In the research described this method was applied to aluminium-copper alloys (3 and 5% Cu) deformed to 30% by forging. The authors review published work of a similar character (Refs 1-16) tabulating the material, type of deformation, work, method of measuring work, additional measurements for some (Refs 1-12). In their own work the "apparent" specific heat was determined by a method described by M. M. Popov and G. L. Gal chenko (Ref 29). An unusual

66897

sov/126-8-1-15/25

Latent Energy of Plastic Deformation of Alloy of Aluminium with calorimeter (Fig 1) was used, consisting of a squat Copper

cylindrical heater on either side of which two initially cylindrical specimens 20 mm in diameter and 30 mm high were placed. The outer ends of the specimens were in contact with thermocouple-containing silver cylinders. The assembly was bound with wire and suspended inside a massive silver container in a furnace. Systematic errors in the results were of no significance in the procedure adopted. Fig 2 shows specific heats as functions of temperature for the annealed and for hardened undeformed alloys, together with the correspondand latter and the complex shape of the "apparent" specific heat functions indicate exo- or endo-thermic transformations. Specific heats of annealed and hardened 3% Cu alloys for successive reheatings are shown in Fig 3 as functions of temperature. Since annealed specimens gave unreproducible results, tests on deformed alloys were restricted to the hardened or semidecormed arroys were restricted to the nardened or semi-hardened (i,e, cooled from 520 to 80°C in 16 hours) alloys.

Card 2/4

66897

50V/126-8-1-15/25

SUV/120-0-1-15/25 Latent Energy of Plastic Deformation of Alloy of Aluminium with Deformation, limited to 30% by a ring, was effected by Copper

a free-falling bob, Fig 4 shows specific-heat vs. temperature curves for hardened deformed and undeformed 3 and 5% Cu alloys, Further experiments were carried out in which determination of the latent heat of deformation was reduced to 1) deformation of a semi-hardened specimen, 2) determination of the difference between enthalpies at two given temperatures for the first heating and for the second and subsequent heatings, This was carried out with six pairs of the 5% Cu alloy (Figs 5 and 6 give the corresponding specific heat vs. temperature curves), showing that 1) less heat is required for the first than for subsequent heating between the same temperatures; 2) the latent heat of deformation for the six pairs varied from 0.4 to 2.3 cal/g; the latent heat of deformation is released over a wide temperature range. authors consider their experimental errors such that only the order of magnitude of the latent heat of deformation can be found.

Card 3/4

sov/115-59-9-18/37

24(8) AUTHOR:

Skuratov, S.M.

TTTLE:

The Problem of Units of Measure of Heat Quantities

PERIODICAL:

Izmeritel'naya tekhnika, 1959, Nr 9, pp 32-33 (USSR)

ABSTRACT:

The author discusses the introduction of the joule as the basic unit for measuring the amount of heat instead of the outdated calory. GOST 8550-57 "Thermal Units" introduces the absolute joule as the unit for measuring the amount of heat. However, the calory is still widely used. Nevertheless, the calory should be replaced by the joule. Reviewing the history of the introduction of the joule as the basic unit for measuring the amount of heat, the author lists different ratios of the international joule to the absolute joule. These differences were caused, since the methods of determining the absolute joule have been constantly improved. Since 1948, the international joule is not longer used; 1 international joule = 1.00019 absolute joule and 1 calory = 4.1840 absolute joule. Although the absolute joule

Card 1/2

SOV/115-59-9-18/37

The Problem of Units of Measure of Heat Quantities

should be used for all scientific work, the author recommends indicating which ratio of the joule to the calory has been used, if heat units are expressed in calories. There is 1 Soviet reference.

Card 2/2